



Regional Aviation Safety Group Pan America (RASG-PA) Overview

SSP/SMS Implementation Workshop

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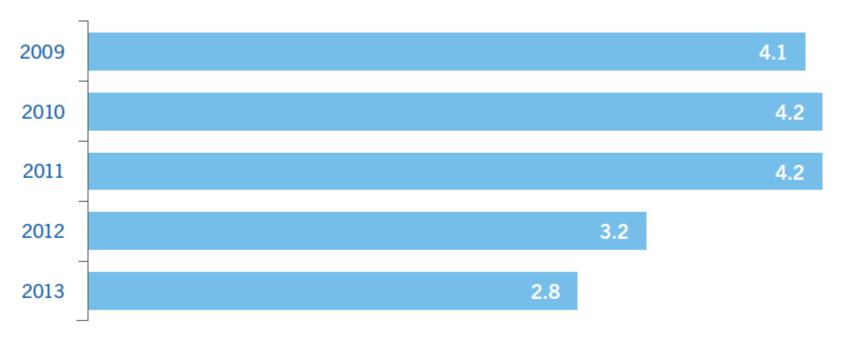
Air transport is the safest mode of transportation





Global Accident Rate

(Accidents per million departures)



Source: ICAO Safety Report 2014 Edition
Scheduled commercial operations. Maximum Take-off Weight (MTOW) above 5700 kg



Despite the crisis, air transport industry keeps growing providing social and economic benefits





ICAO Statistics show



Traffic Statistics for Revenue Scheduled Services



Economic & Social Benefits

Air Transport Facts

SOCIAL BENEFITS

60 million jobs - Worldwide



Directly and supporting sectors

ECONOMIC BENEFIT

2 trillion USD



3.5% GDP global

Aviation annually carries more than half of the 1 billion international tourists





The International Civil **Aviation Organization sets** the Standards and **Recommended Practices** (SARPs) necessary for aviation safety, security, efficiency and environmental protection on a global basis



Safety is one of the strategic objectives of ICAO



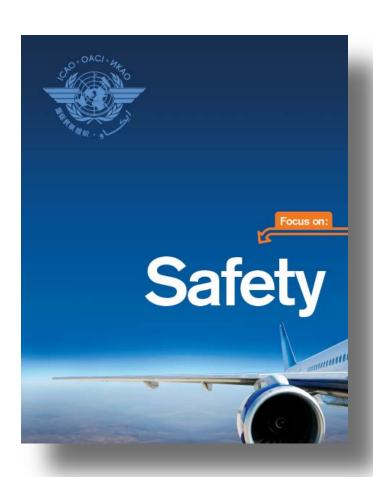


ICAO and all the stakeholders are working in partnership to improve safety





For ICAO Safety is paramount...







ICAO developed the new Global Aviation Safety Plan (GASP), the Annex 19 and the Safety Management Manual









One of the contributors for this safety record is the **Regional Aviation** Safety Group - Pan America (RASG-PA)





The RASG-PA Annual Safety Report shows that the number of accidents in the Pan American Region is decreasing...



Table 3. Pan America General Aviation Operations⁵ Accidents

Aircraft Maximum Take-off Mass above 2,250 to 27,000 kilograms Source: ICAO ADREP/ECCAIRS

Year	Total Accidents ³	Fatal Accidents ⁴	Total Fatalities
2002-2011 avg.	219	57.4	137.4
2011	110	27	58
2012	18	5	16

General aviation: for this report, general aviation operation includes all civil aviation operations other than scheduled and non-scheduled commercial air transport operations.

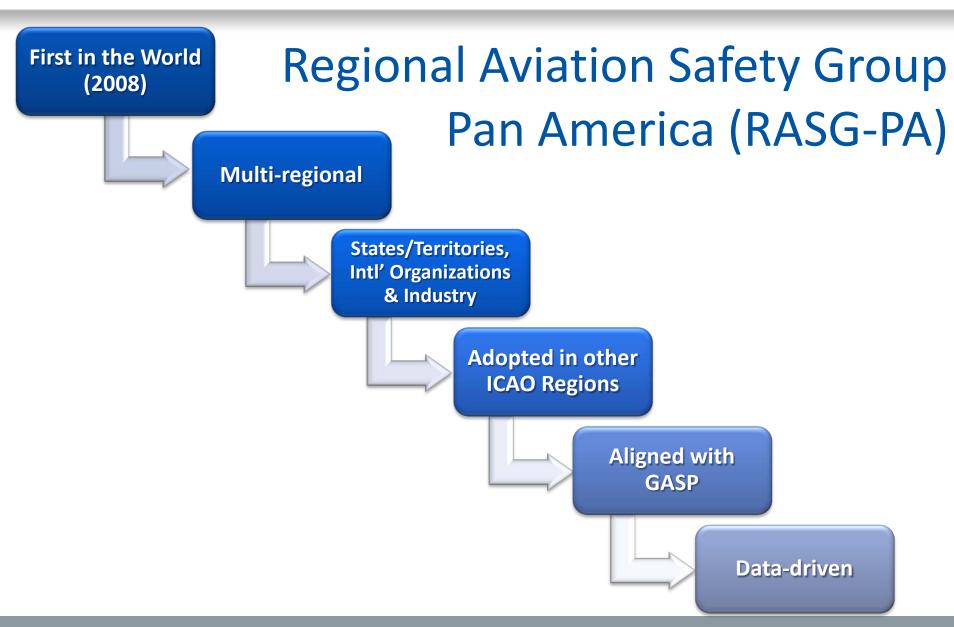


Table 2. Pan America Scheduled Commercial Air Transport Operations² Accidents

Aircraft Maximum Take-off Mass above 27,000 kilograms Source: Boeing - |CAO ADREP/ECCA|RS

Year	Total Accidents ³	Fatal Accidents ⁴	Total Fatalities
2002-2011 avg.	23.9	1.2	59.9
2011	27	0	0
2012	4	0	0







Pan America Region





RASG-PA Mission







RASG-PA Vision







RASG-PA Membership

34 NAM/CAR/SAM States, 19 Territories and...



































Executive Steering Committee (ESC)



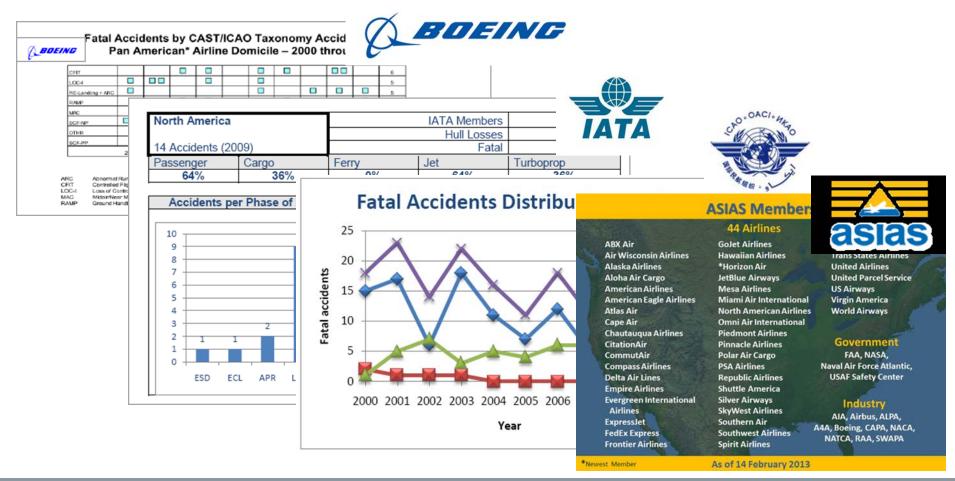


RASG-PA is a data-driven, results oriented organization





RASG-PA uses safety data from different sources





RASG-PA uses different types of safety information



REACTIVE: safety analysis based upon past occurrences (accidents and incidents) in the Pan American Region PROACTIVE: includes analysis of States' existing conditions (ICAO SARPs implementation, traffic variations) and service providers (IATA Operational Safety Audits, ramp inspections)

upon analysis of Flight
Operations Quality
Assurance (FOQA) deidentified data,
oriented towards
identifying potential
future hazards for
initiating
corresponding
mitigation actions



Top Risk Areas in Pan American Region

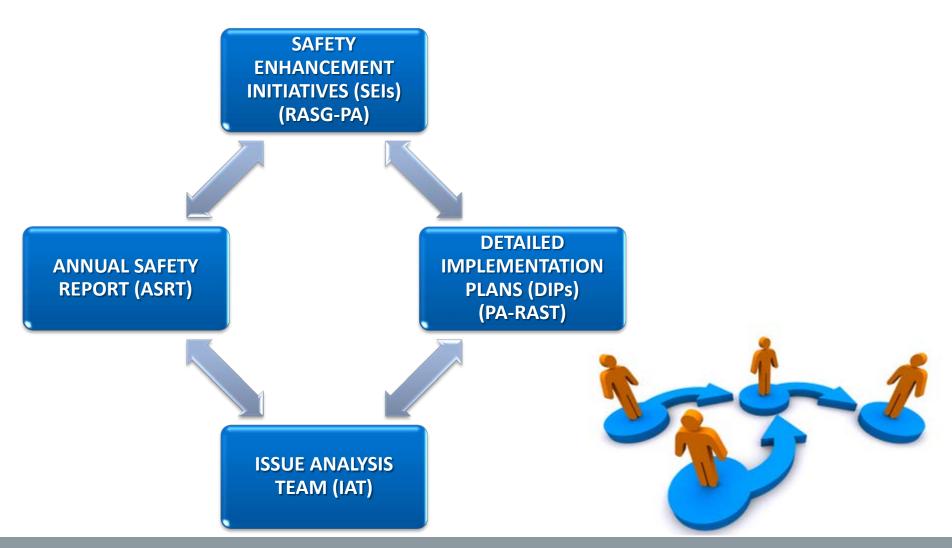
- Runway Excursion (RE)
- Loss of Control In-flight (LOC-I)
- Controlled Flight Into Terrain (CFIT)
- Mid Air Collision (MAC)







RASG-PA PROCESS





RASG-PA Develops SEIs to Tackle the Main Risk Areas

Runway Excursion (RE)

Controlled Flight Into Terrain (CFIT)

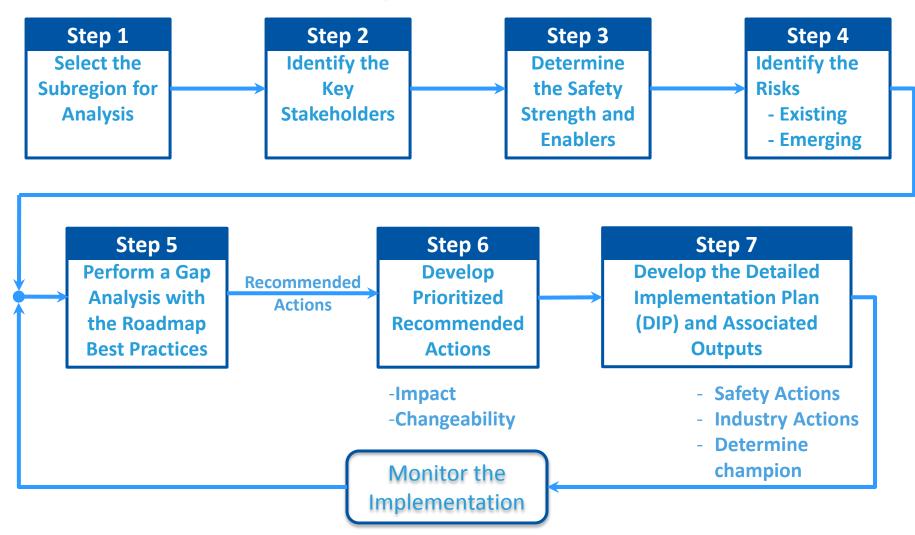
Loss of Control-Inflight (LOC-I) Mid-Air Collision (MAC)



Every SEI has an associated DetailedImplementation Plan (DIP)

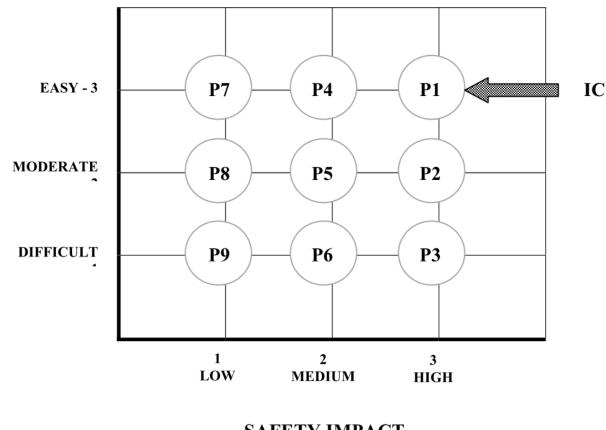


Development of a SEI





Selection Criteria Impact-changeability (IC) Level Chart







RE DIPs & Outputs

DIP	Description	Champion	Status
RE/04	Promote pilot adherence to Standard Operating Procedures (SOPs) for approach procedures including go-around decision making process	ALTA	Completed Completed
RE/09	Specific Training for pilots and air traffic controllers to avoid unstabilized approaches	ALTA	Completed In process
RE/8	Guidance in maintaining runway in accordance with Annex 14	ACI-LAC	Completed Completed Completed
RE/11	Develop guidance material and training programs to create action plans for runway safety teams	DGAC Mexico	Completed Completed Completed



LOC-I DIPs & Outputs

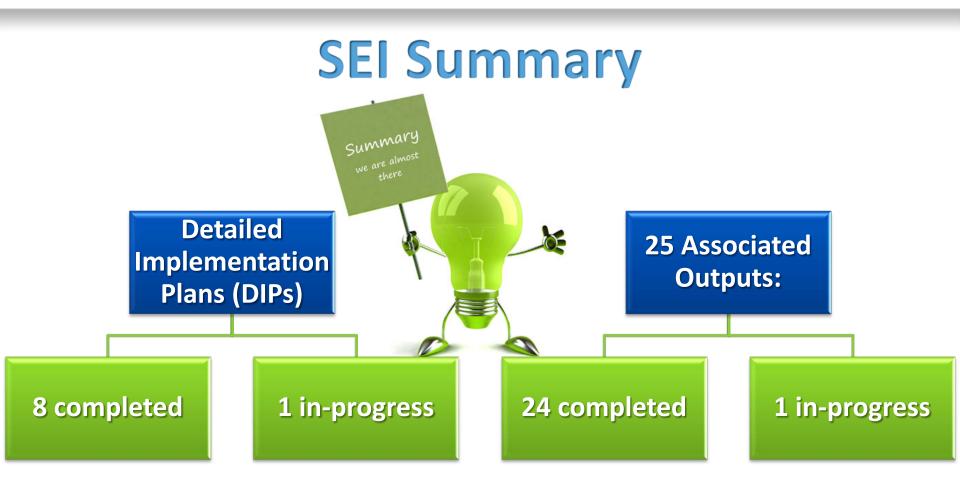
DIP	Description	Champion	Status
LOC-I/06	LOC-I Training – Human factors and automation	PA-RAST	Completed
			Completed
			Completed
			Completed
	CC-I/07 LOC-I Training – Advanced maneuvers		Completed
			Completed
LOC-I/07		ALTA	Superseded
	LOC-I Training - Pilot monitoring policies and procedure for the operator and training program for crews	IFALPA	Completed
			Completed
			Completed
			Completed



CFIT DIPs & Outputs

DIP	Description	Champion	Status
CELT /02	CFIT/02 Specific ALAR/CFIT Training for Pilots	IATA	Completed
CF11/02			Completed
	CRM/Situational Awareness for pilots and air traffic controllers	IFALPA & IFATCA	Completed
CFIT/04			
			Completed

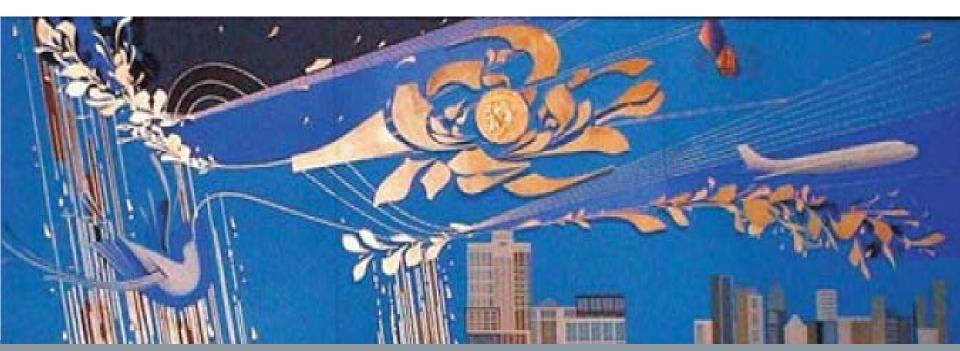




New SEIs are under development by the Safety Enhancement Teams (SETs)

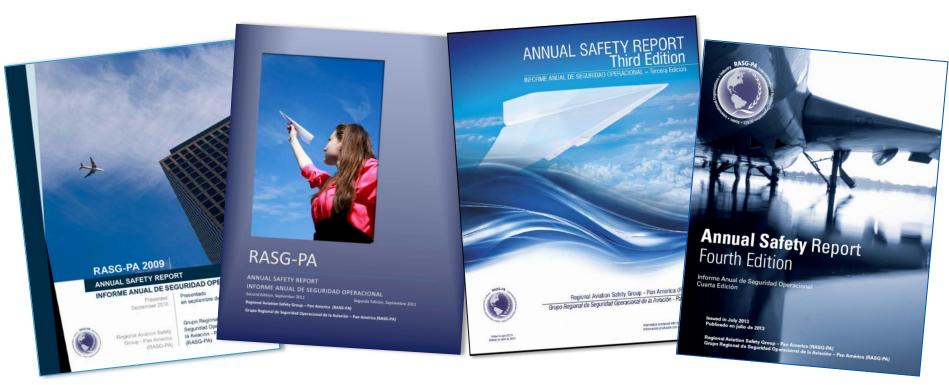


RASG-PA Deliverables





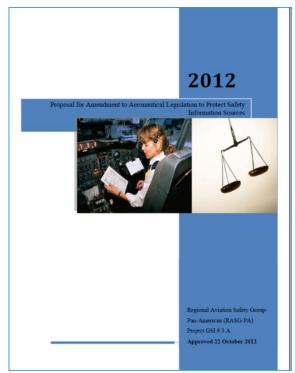
RASG-PA publishes Annual Safety Reports



Measuring Results



Created the Proposal for Amendment to Aeronautical Legislation to Protect Safety Information Sources





Pan American Aviation Safety Summits





3 rd PAN AMERICAN
AVIATION SAFETY SUMMIT
June 19-21 2012 BOADTO Colombia







Upcoming Fifth Pan American Aviation Safety Summit in partnership with ALTA and hosting State Curação





- Annual Plenary Meetings
- Aviation Safety Seminars and Workshops
- Projects
- RASG-PA Safety Advisories RSA
- Training Tools
- Dedicated Website





But there is a need to do more about safety



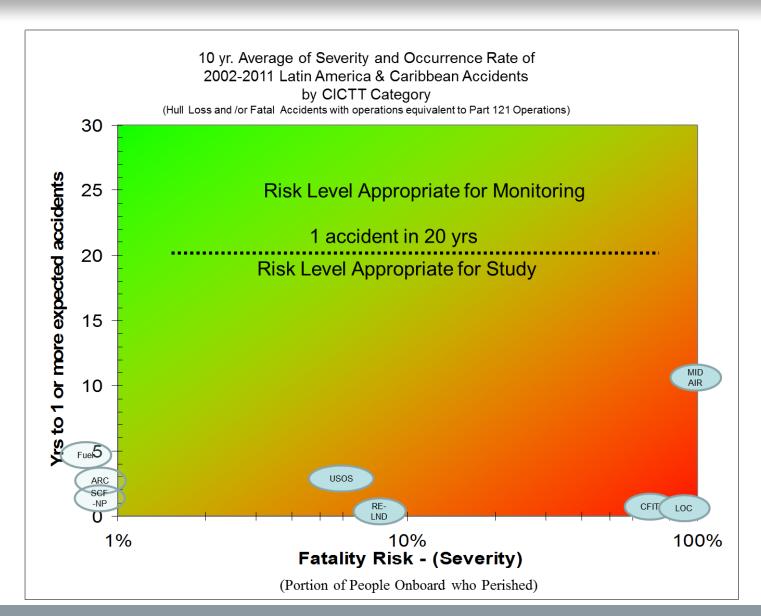


RASG-PA Risk Reduction Goal

Using 2010 as a baseline, is to reduce fatality risk for Part 121 or equivalent operations by 50% by the year 2020 in Latin America and the Caribbean









Managing Aviation Safety Risks Faces Many Challenges

- Traffic growth
- New air transport operators
- Significant number of new aircraft orders
- Demand for skilled aviation personnel
- Training capacity
- Attractiveness of aviation
- Attrition related impact
- Infrastructure deficiencies
- Resources
- Political will



RASG-PA Main Plans 2014 - 2016

- Align RASG-PA work programme with GASP
- Support roll-out of GASP & Annex 19
- Improve RASG-PA processes and procedures
- Mitigate RE, CFIT, LOC-I & MAC risks
- Monitor/act regarding regional safety issues
- Improve coordination with GREPECAS
- Establish contact with other RASGs
- Improve participation of stakeholders
- Positioning as the strategic regional safety forum
- Support ICAO with data collection for safety dashboard



We are very ambitious setting our safety targets...





...but we are confident that with everybody's commitment and continuous support it will be achieved



We need your commitment!







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Thank you!